

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/00140

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ B41J2/447

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B41J2/447, H05B33/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2003
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 5-57953 A (Toshiba Corp.),	1, 13
Y	09 March, 1993 (09.03.93),	2, 6, 10-12
A	Par. Nos. [0009] to [0012]; Figs. 1 to 2 (Family: none)	3-5, 7-9
Y	JP 5-4377 A (Fuji Xerox Co., Ltd.),	10, 11
	14 January, 1993 (14.01.93),	
	Par. No. [0022]; Fig. 1 (Family: none)	
Y	JP 4-237993 A (Idemitsu Kosan Co., Ltd.),	11
	26 August, 1992 (26.08.92),	
	Par. No. [0037]; Fig. 2 (Family: none)	

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:
 "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier document but published on or after the international filing date
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
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 "P" document published prior to the international filing date but later than the priority date claimed

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 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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Date of the actual completion of the international search
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 3-187189 A (Nippon Telegraph And Telephone Corp.), 15 August, 1991 (15.08.91), Full text; Fig. 1 (Family: none)	12
P, Y P, A	JP 2002-103678 A (Ricoh Co., Ltd.), 09 April, 2002 (09.04.02), Par. Nos. [0028] to [0031]; Figs. 2 to 3 (Family: none)	2, 6 7
A	JP 3-138893 A (Tokyo Electric Co., Ltd.), 13 June, 1991 (13.06.91), Full text; Figs. 1 to 8 (Family: none).	2-9